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(54) COMPLETENESS TESTING METHOD

(57) Abstract:

PURPOSE: To detect a defect of the structural parts of a filter and a filter car tridge at high precision by measuring diffusion flow rate of pressure holding value at the pressure of at least two points in a range of \leq 90% value of a bubble point of the filter.

CONSTITUTION: Liquid such as water which is low in solubility of gap and small in diffusion coefficient and high in surface tension δ is utilized for test liquid. The contact angle of test liquid and a membrane is regulated to θ . The relation of radius (r) of a defect of a filter or a cartridge and the spray pressure P of test liquid is shown in r=2 δ cos θ /P. Spray amount QL(ml/min) is obtained by an expression QL=15 π d4▵P/32L η in the case of (d) (μ m) diameter of a defect, ▵P (bar) differential pressure, L(m) length of the defect and η (μ poise) viscosity

of spray fluid. Accordingly, completeness can be tested at the pressures for two or more points of ≤ 90% value of bubble, with the diffusion flow rate or pressure holding value and differential values between measurement points as an inspection standard point.

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